

2000/2001 Annual Summary Report

of the Incidental Takings Authorization for Grassland and Savanna Management

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Chiwaukee Prairie, Photo by Thomas Meyer

INTRODUCTION

The Grassland/Savanna Management Protocols were authorized in February 2000 to provide broad taking authorization for those species whose continued existence depends upon periodic natural disturbance. The intent of the authorization is to allow the Department to conduct habitat management so that species and the natural ecosystems as a whole are maintained, and not lost to vegetative succession or invasives, while still following the intent of the Wisconsin Endangered Species Law. This authorization applies to all grassland and savanna management activities that the Department conducts, funds or approves.

The development of an annual summary report is a condition of formal authorization. Condition 4 states *“The Department shall compile an annual summary report documenting by property the past year’s grassland/savanna management where listed species were determined to be present.”* This report serves as the annual summary for 2000 and 2001 and provides a general overview of how the Department has conducted grassland/savanna management within the confines of the existing protocols. Included herein is a summary of the following information: general management objectives, the estimated total acreage of incidental taking, how the species protocols were followed, presence/absence surveys, and what alternative management was carried out if protocols were not followed.

The report covers the results from February 2000 through December 2001. Information is grouped separately for each year. Information for 2000 tends to be more limited since it was the first year of the protocols and staff were not as familiar with its application.

The Grassland/Savanna Management Protocols require managers to provide information to the Bureau of Endangered Resources only if screening indicates that legally protected species are likely present in the management area. If so, then managers are to follow the Species Protocols and document how management for listed species was addressed on a form provided in the Authorization Document. Thus, the following does not provide details on the full extent and scope of screening that has occurred for state grassland and savanna management activities, but rather only those that were likely to impact a threatened or endangered species. This information was provided on the Grassland/Savanna Management Protocol Form or other format that included the same information. The full documentation provided to BER is included in files located at the Bureau of Endangered Resources office in Madison, Wisconsin.

RESULTS

The information in this report was compiled from property managers who were requested to send in the Grassland/Savanna Management Documentation form for grassland/savanna management activities they had conducted. The majority of activities reported were conducted by DNR staff on lands owned by the DNR (Table 1). In addition, DNR staff conducted grassland/savanna management activities on 5 privately owned properties. The Nature Conservancy (TNC) also conducted activities on lands that they manage and/or own. TNC manages a number of properties that are privately owned but either designated as State Natural Areas or managed with the assistance of DNR staff, thus their activities were covered by the takings authorization.

Table 1. Summary of property types with management activities covered by the Incidental Take Authorization for Grassland and Savanna Management

	2000	2001
State Natural Areas	15	21
State Wildlife Areas	4	3
State Recreation Areas	1	1
State Forests	0	1
Private Lands	3	2
Totals	23	28

Table 2 provides a summary by year and property of all documented activities that followed the Grassland/Savanna Management Protocols as reported by property managers. For each activity, Table 2 lists the estimated acreage impacted, the species likely to be present, the guidelines followed and whether surveys were conducted to determine presence or absence of specific species. For 2000, 4 managers provided information on 23 properties. For 2001, 8 managers provided information on 28 properties.

Approximately 7,296 acres (3,331 in 2000 and 3,965 in 2001) of grassland and savanna habitat were covered under the incidental taking authorization. The activities likely impacted the following 31 species in 2000 and 32 species in 2001. All of these species are covered by the Grassland/Savanna Takings Authorization.

2000

- Brittle Prickly Pear (*Opuntia fragilis*) THR
- Hairy Wild Petunia (*Ruellia humilis*) END
- Hill's Thistle (*Cirsium hillii*) THR
- Kitten Tails (*Besseyia bullii*) THR
- Pale False Foxglove (*A. skinneriana*) END
- Pale Purple Coneflower (*Echinacea pallida*) THR
- Pink Milkwort (*Polygala incarnata*) END
- Prairie Bush Clover (*Lespedeza leptostachya*) END
- Prairie Indian Plantain (*Cacalia tuberosa*) THR
- Prairie Milkweed (*A. sullivantii*) THR
- Prairie Parsley (*Polytaenia nuttallii*) THR
- Prairie White-Fringed Orchid (*Platanthera leucophaea*) END
- Purple Milkweed (*Asclepias purpurescens*) END
- Rough Rattlesnake-root (*Prenanthes aspera*) END

- Round-seed St. John's Wort (*Hypericum sphaerocarpum*) THR
- Round-stemmed False Foxglove (*Agalinis gattereri*) THR
- Smooth Phlox (*Phlox glaberrima*) END
- Small White Lady's Slipper (*Cypripedium candidum*) THR
- Wild Quinine (*Parthenium integrifolium*) THR
- Woolly Milkweed (*Asclepias lanuginosa*) THR
- Yellow Gentian (*Gentiana alba*) THR
- Yellow Giant Hyssop (*Agastache nepetoides*) THR
- Yellow Rail (*Coturnicops noveboracensis*) THR
- Bell's Vireo (*Vireo bellii*) THR
- Henslow's Sparrow (*Ammodramus henslowii*) THR
- Red-tailed Leaf Hopper (*Aflexia rubranura*) END
- Silphium Borer Moth (*Papaipema silphii*) END
- Blandings Turtle (*Emydoidea blandingii*) THR
- Ornate Box Turtle (*Terrapene ornata*) END
- W. Slender Glass Lizard (*Ophisaurus attenuatus*) END
- Wood Turtle (*Clemmys insculpta*) THR

2001

- Brittle Prickly Pear (*Opuntia fragilis*) THR
- Hairy Wild Petunia (*Ruellia humilis*) END
- Hill's Thistle (*Cirsium hillii*) THR
- Kitten Tails (*Besseyia bullii*) THR
- Pale False Foxglove (*Agalinis skinneriana*) END
- Pale Purple Coneflower (*Echinacea pallida*) THR
- Pink Milkwort (*Polygala incarnata*) END
- Prairie Bush Clover (*Lespedeza leptostachya*) END
- Prairie Indian Plantain (*Cacalia tuberosa*) THR
- Prairie Milkweed (*A. sullivantii*) THR
- Prairie Parsley (*Polytaenia nuttallii*) THR
- Purple Milkweed (*Asclepias purpurescens*) END
- Round-seed St. John's Wort (*Hypericum sphaerocarpum*) THR
- Round-stemmed false Foxglove (*Agalinis gattereri*) THR
- Small White Lady's Slipper (*Cypripedium candidum*) THR
- Wild Quinine (*Parthenium integrifolium*) THR
- Woolly Milkweed (*Asclepias lanuginosa*) THR
- Yellow Gentian (*Gentiana alba*) THR
- Yellow Giant Hyssop (*Agastache nepetoides*) THR
- Yellow Rail (*Coturnicops noveboracensis*) THR
- Blandings Turtle (*Emydoidea blandingii*) THR
- Loggerhead Shrike (*Lanius ludovicianus*) END

- Ornate Box Turtle (*Terrapene ornata*) END
- Wood Turtle (*Clemmys insculpta*) THR
- W. Slender Glass Lizard (*Ophisaurus attenuatus*) END
- Henslow's Sparrow (*Ammodramus henslowii*) THR
- Swamp Metalmark (*Calephelis mutica*) END
- Karner Blue (*Lycaides melissa samuelis*) SC/FE
- Prairie (net-veined) Leafhopper (*Polyamia dilata*) THR
- Red-tailed Leaf Hopper (*Aflexia rubranura*) END
- Regal Fritillary Butterfly (*Speyera idalia*) END
- Silphium Borer Moth (*Papaipema silphii*) END

All management activities conducted in 2000 and 2001 that were covered under the Authorization were for the purposes of recovering, maintaining or improving grassland, prairie or savanna ecosystems. Prescribed burning was by far the most common activity covered under the Authorization. Additional activities included prairie plantings, brush and tree removal, herbiciding, and haying.

The Grassland/Savanna Takings Authorization allows for alternatives to the species protocols if implementing a given protocol is not feasible, or multiple listed species in a given management area pose conflicts. In such cases, managers are advised to contact BER and species experts to establish acceptable protocols that will allow for incidental take without further legal Consultation or public notice. This scenario occurred three times (column 9 of Table 2), once for the Swamp Metalmark and twice for Blanding's turtle. In all cases, alternative protocols were developed and involved limiting the extent of habitat disturbance.

The Grassland/Savanna Takings Authorization provides avoidance protocols only for three species (Ornate box turtle, Loggerhead shrike, and Eastern massasauga rattlesnake) given the extreme rarity and/or low reproductive rates for these species and the fact that specific management methods exist to avoid take. Two species (Ornate box turtle, Loggerhead shrike) were likely impacted by management activities in 2001 and the avoidance protocols were followed as suggested.

Surveys were conducted in some instances to determine presence or absence of species and what direction their management would have to follow (Column 6 of Table 2). For those instances where surveys affirmed the presence of a listed species, managers were required to follow the protocols - thus the post-survey management activities are included in this report. The results of the surveys are included in the project files for the individual properties.

Additional improvements to the species protocols and documentation requirements will continue to be developed as the Department implements future management activities under the Grassland/Savanna Takings Authorization. For example, the Grassland/Savanna Documentation form was updated by combining it with the Form ER - Endangered Resources Screening Form in October of 2002 (see attached revised Form ER). The revised Form ER is now available on the DNR Intranet site under E-forms (<http://intranet.dnr.state.wi.us/itworks/forms/eforms.asp>) and on the BER Intranet site as a .pdf file.

Further information about the Grassland/Savanna Incidental Take Authorization or this Annual Report can be requested from Andy Galvin at the Endangered Resources Program at (608)-264-8968.

Table 2. Summary of documented Grassland/Savanna Management Activities that followed the Incidental Take Protocols									
Site Name	Management Activity	Total Acres Impacted	Species Present	Guidelines Followed By:	Survey conducted?	Manager	Year	Followed IT Guidelines	County
2000									
Avoca Prairie SNA	Burn / Herbicide	300	Blanding's Turtle	Burned when temps < 50 deg. F. No broadcast application of herbicide		M. Zine	2000	Yes	Iowa
Avoca Prairie SNA			Prairie Indian Plantain	Followed timing restrictions. No broadcast application of herbicide.		M. Zine	2000	Yes	Iowa
Blue River Bluffs SNA	Burn/ Cut Brush	160	Yellow Gentian	Followed timing restrictions. Cut occurred on frozen ground		M. Zine	2000	Yes	Grant
Blue River Bluffs SNA			Pink Milkwort	Followed timing restrictions. Cut occurred on frozen ground		M. Zine	2000	Yes	Grant
Blue River Bluffs SNA			Pale False Foxglove	Followed timing restrictions. Cut occurred on frozen ground		M. Zine	2000	Yes	Grant
Blue River Bluffs SNA			Ornate Box Turtle	Burned when temps < 50 deg. F.		M. Zine	2000	Yes	Grant
Bong Recreation Area	Burn	*	Henslows Sparrow	Followed timing restrictions; no burn for > 40 contiguous acres of habitat	x	M. Johnson	2000	Yes	Kenosha
Brillion Wildlife Area	Haying/Burn	96	Prairie Parsley	Followed timing restrictions		D. Nikolai	2000	Yes	Calumet
Brillion Wildlife Area			Yellow Gentian	Followed timing restrictions/cons. Experts		D. Nikolai	2000	Yes	Calumet
Brillion Wildlife Area			Yellow Rail	Followed timing restrictions	x	D. Nikolai	2000	Yes	Calumet
Chiwaukee Prairie SNA	Burn	30.2	Prairie White-fringed Orchid	Avoided known location	x	M. Johnson	2000	Yes	Kenosha
Chiwaukee Prairie SNA			Prairie Indian Plantain	Followed timing restrictions	x	M. Johnson	2000	Yes	Kenosha
Chiwaukee Prairie SNA			Smooth Phlox	Followed timing restrictions	x	M. Johnson	2000	Yes	Kenosha
Dercks property	Burn	60	Wood Turtle	Followed timing restrictions		D. Nikolai	2000	Yes	Outagamie
Eagle Oak Opening SNA	Cut Brush	90	Silphium Borer Moth	Brush cut done when burning was allowed		M. Zine	2000	Yes	Waukesha
Eagle Oak Opening SNA			Kitten Tails	Brush cut done when burning was allowed		M. Zine	2000	Yes	Waukesha
Eagle Oak Opening SNA			Small White Lady's-slipper	Brush cut done when burning was allowed		M. Zine	2000	Yes	Waukesha
Ferry Bluff SNA	Burn	159	Round-stemmed False Foxglove	Followed timing restrictions		M. Zine	2000	Yes	Sauk
Genessee Oak Opening SNA	Burn/ Cut Brush	52	Blanding's Turtle	Area surveyed before burn.		M. Zine	2000	Yes	Waukesha
Genessee Oak Opening SNA			Silphium Borer Moth	Followed timing and area restrictions		M. Zine	2000	Yes	Waukesha
Genessee Oak Opening SNA			Kitten Tails	No burn restrictions. Cut occurred on frozen ground		M. Zine	2000	Yes	Waukesha
Genessee Oak Opening SNA			Small White Lady's-slipper	Followed timing restrictions. Cut occurred on frozen ground		M. Zine	2000	Yes	Waukesha

Site Name	Management Activity	Total Acres Impacted	Species Present	Guidelines Followed By:	Survey conducted?	Manager	Year	Followed IT Guidelines	County
Grand River Wildlife Area	Burn	825	Bell's Vireo	Followed timing restriction		J. Holzwart	2000	Yes	Green Lake
Grand River Wildlife Area			Blanding's Turtle	Followed weather restrictions		J. Holzwart	2000	Yes	Green Lake
Grand River Wildlife Area			Henslows Sparrow	Followed timing restriction		J. Holzwart	2000	Yes	Marquette
Ipswich Prairie SNA	Burn	10	Hill's Thistle	Followed timing restrictions		M. Zine	2000	Yes	Grant
Ipswich Prairie SNA			Wild Quinine	Followed timing restrictions		M. Zine	2000	Yes	Grant
Kessler Railroad Prairie SNA	Burn	4	Prairie Milkweed	Followed timing restrictions		M. Zine	2000	Yes	Rock
Kessler Railroad Prairie SNA			Prairie Indian Plaintain	Followed timing restrictions		M. Zine	2000	Yes	Rock
Kessler Railroad Prairie SNA			Small White Lady's-slipper	Followed timing restrictions		M. Zine	2000	Yes	Rock
Kettle Moraine Oak Opening SNA	Burn	120	Kitten Tails	No restrictions on burning	x	M. Zine	2000	Yes	Walworth
Killsnake Wildlife Area	Haying/Burn	87	Prairie Parsley	Followed timing restrictions		D. Nikolai	2000	Yes	Calumet
Killsnake Wildlife Area			Yellow Gentian	Followed timing restrictions/cons. Experts		D. Nikolai	2000	Yes	Calumet
Killsnake Wildlife Area			Yellow Rail	Followed timing restrictions	x	D. Nikolai	2000	Yes	Calumet
Lancaster Prairie SNA	Burn	15	Prairie Bush Clover	Followed timing restrictions		M. Zine	2000	Yes	Grant
Lancaster Prairie SNA			Wild Quinine	Followed timing restrictions		M. Zine	2000	Yes	Grant
Lancaster Prairie SNA			Pale Purple Coneflower	Followed timing restrictions		M. Zine	2000	Yes	Grant
McMahon property	Burn	10	Yellow Gentian	Followed timing restrictions		D. Nikolai	2000	Yes	Calumet
Olson Oak Woods SNA	Burn		Purple Milkweed	Followed timing restrictions		M. Zine	2000	Yes	Dane
Sugar River Wetlands SNA	Burn	110	Prairie Parsley	Followed timing restrictions		M. Zine	2000	Yes	Dane
Sugar River Wetlands SNA			Small White Lady's-slipper	Followed timing restrictions		M. Zine	2000	Yes	Dane
Rock River SNA	Burn	35	Hairy Wild Petunia	Followed timing restrictions and area restrictions		M. Zine	2000	Yes	Rock
Rock River SNA			Hill's Thistle	Followed timing restrictions and area restrictions		M. Zine	2000	Yes	Rock
Rock River SNA			Pale Purple Coneflower	Followed timing restrictions and area restrictions		M. Zine	2000	Yes	Rock
Rock River SNA			Round St. John's Wart	Followed timing restrictions and area restrictions		M. Zine	2000	Yes	Rock
Rock River SNA			Prairie Bush Clover	Followed timing restrictions and area restrictions		M. Zine	2000	Yes	Rock
Rock River SNA			Yellow Giant Hyssop	Followed timing restrictions and area restrictions		M. Zine	2000	Yes	Rock
Rocky Run SNA	Burn	54	Ornate Box Turtle	Followed timing/temp restrictions; Burned when temps < 50 deg. F.		M. Zine	2000	Yes	Columbia
Rocky Run SNA			W. Slender Glass Lizard	Followed timing restrictions; burned prior to April 15		M. Zine	2000	Yes	Columbia
Rocky Run SNA			Wooly Milkweed	Followed timing restrictions		M. Zine	2000	Yes	Columbia
Rocky Run SNA			Hill's Thistle	Followed timing restrictions		M. Zine	2000	Yes	Columbia
Rocky Run SNA			Brittle Prickly Pear	Followed timing restrictions		M. Zine	2000	Yes	Columbia

Site Name	Management Activity	Total Acres Impacted	Species Present	Guidelines Followed By:	Survey conducted?	Manager	Year	Followed IT Guidelines	County
White River Marsh WA	Burn	1014	Blanding's Turtle	Followed weather restrictions		J. Holzwart	2000	Yes	Green Lake
White River Marsh WA			Henslows Sparrow	Followed timing restriction		J. Holzwart	2000	Yes	Green Lake
Young Prairie SNA	Burn/Cut Brush	100	Red-tailed Leaf-hopper	Burned less than 1/3 of host plant, left 1/2 unburned for 3 consecutive years.		M. Zine	2000	Yes	Jefferson
Young Prairie SNA			Silphium Borer Moth	Burned less than 1/3 of host plant, left 1/2 unburned for 3 consecutive years.		M. Zine	2000	Yes	Jefferson
Young Prairie SNA			Prairie Milkweed	Followed timing restrictions/cut brush when ground was frozen		M. Zine	2000	Yes	Jefferson
Young Prairie SNA			Prairie Indian Plaintain	Followed timing restrictions/cut brush when ground was frozen		M. Zine	2000	Yes	Jefferson
Young Prairie SNA			Small W. Lady's Slipper	Followed timing restrictions/cut brush when ground was frozen		M. Zine	2000	Yes	Jefferson
Zauner Prairie	Cut Brush	50	Hill's Thistle	Cut brush when ground was frozen		M. Zine	2000	Yes	Dane
Zauner Prairie			Rough Rattlesnake Root	Cut brush when ground was frozen		M. Zine	2000	Yes	Dane
2001									
Avoca Prairie SNA	Herbicide - purple loosestrife mgt	2	Blanding's Turtle	No broadcast application of herbicide	x	M. Zine	2001	Yes	Iowa
Avoca Prairie SNA			Prairie Indian Plaintain	No broadcast application of herbicide.		M. Zine	2001	Yes	Iowa
Black Earth Prairie SNA	Shrub clearing	10	Foxglove species	Avoided known locations		TNC	2001	Yes	Dane
Blue River Bluffs SNA	Burn/ Cut Brush	160	Yellow Gentian	Followed timing restrictions. Cut occurred on frozen ground		M. Zine	2001	Yes	Grant
Blue River Bluffs SNA			Pink Milkwort	Followed timing restrictions. Cut occurred on frozen ground		M. Zine	2001	Yes	Grant
Blue River Bluffs SNA			Pale False Foxglove	Followed timing restrictions. Cut occurred on frozen ground		M. Zine	2001	Yes	Grant
Blue River Bluffs SNA			Ornate Box Turtle	Burned when temps < 50 deg. F.		M. Zine	2001	Yes	Grant
Blue River Sands SNA	Burn	130	Blanding's Turtle	Burned occurred after turtles began hibernation.		M. Zine	2001	Yes	Grant
Blue Spring Oak Opening SNA	Burn/Herbicide	120	Kitten Tails	No restrictions on burning. Herbicided when Kitten Tails were dormant.		M. Zine	2001	Yes	Jefferson
Bong Recreation Area	Burn/Prairie Planting	705	Henslows Sparrow	Followed timing restrictions; no burn for > 40 contiguous acres of habitat	x	M. Johnson	2001	Yes	Kenosha
Brillion Wildlife Area	Haying/Burn	96	Prairie Parsley	Followed timing restrictions		D. Nikolai	2001	Yes	Calumet
Brillion Wildlife Area			Yellow Gentian	Followed timing restrictions/cons. Experts		D. Nikolai	2001	Yes	Calumet
Brillion Wildlife Area			Yellow Rail	Followed timing restrictions	x	D. Nikolai	2001	Yes	Calumet
Chaffee Creek SNA (burn unit 1)	Burn	81	Henslows Sparrow	Followed timing restrictions		N. Christel	2001	Yes	Marquette

Site Name	Management Activity	Total Acres Impacted	Species Present	Guidelines Followed By:	Survey conducted?	Manager	Year	Followed IT Guidelines	County
Chaffee Creek SNA (burn unit 1)	Burn		Henslows Sparrow	Followed timing restrictions		N. Christel	2001	Yes	Marquette
Chaffee Creek SNA (burn unit 1)	Burn		Henslows Sparrow	Followed timing restrictions		N. Christel	2001	Yes	Marquette
Empire Prairie SNA - Westport Unit	Burn/Cut Brush	15	Hill's Thistle	Followed timing restrictions		M. Zine	2001	Yes	Dane
Empire Prairie SNA Westport Unit			Prairie Bush Clover	Followed timing restrictions		M. Zine	2001	Yes	Dane
Empire Prairie SNA - Zeigler Unit	Burn/Mow	6	Hill's Thistle	Followed timing restrictions; mowed only 1x.	x	M. Zine	2001	Yes	Dane
Empire Prairie SNA - Zeigler Unit			Red-tailed Leaf-hopper	Followed timing restrictions/cons. Experts	x	M. Zine	2001	Yes	Dane
Gasner Hollow SNA	Burn/Cut Brush	150	Pale Purple Coneflower	Followed timing restrictions/Cut done while ground was frozen		M. Zine	2001	Yes	Grant
Gasner Hollow SNA			Yellow Giant Hyssop	Followed timing restrictions/Cut done while ground was frozen		M. Zine	2001	Yes	Grant
Gasner Hollow SNA			Prairie Indian Plaintain	Followed timing restrictions/Cut done while ground was frozen		M. Zine	2001	Yes	Grant
Gerold Bell (L.O.)	Burn	22.5	Loggerhead Shrike	Followed timing restrictions-burned 4/19		A. Schraufna	2001	Yes	Ozaukee
Hardscrabble SNA	Burn/Cut Brush	160	Net-veined Leafhopper	Followed habitat restrictions		M. Zine	2001	Yes	Lafayette
Heimmermann property		25	Wood Turtle	Followed timing restrictions		D. Nikolai	2001	Yes	Outagamie
Ipswich Prairie SNA	Burn/Cut Brush	10	Hill's Thistle	Followed timing restrictions/Cut done while ground was frozen		M. Zine	2001	Yes	Grant
Ipswich Prairie SNA			Wild Quinine	Followed timing restrictions/Cut done while ground was frozen		M. Zine	2001	Yes	Grant
Kessler Railroad Prairie SNA	Burn	4	Prairie Milkweed	Followed timing restrictions		M. Zine	2001	Yes	Rock
Kessler Railroad Prairie SNA			Prairie Indian Plaintain	Followed timing restrictions		M. Zine	2001	Yes	Rock
Kessler Railroad Prairie SNA			Small White Lady's-slipper	Followed timing restrictions		M. Zine	2001	Yes	Rock
Kettle Moraine Oak Opening SNA	Burn/Cut Brush	120	Kitten Tails	No burning restrictions /cutting occurred in depauperate groundlayer	x	M. Zine	2001	Yes	Walworth
Kettle Moraine State Forest-SU (S 19)	Brush Removal/Burn	159	Kitten Tails	Followed timing restrictions for mowing/burns		J.Jackley	2001	Yes	Waukesha
Kettle Moraine State Forest-SU (S 19)			Small White Lady's-slipper	Followed timing restrictions for mowing/burns		J.Jackley	2001	Yes	Waukesha
Kettle Moraine State Forest-SU (S 19)			Silphium borer moth	Followed 'No Monitoring' Guidelines		J.Jackley	2001	Yes	Waukesha
Killsnake Wildlife Area	Haying/Burn	80	Prairie Parsley	Followed timing restrictions		D. Nikolai	2001	Yes	Calumet
Killsnake Wildlife Area			Yellow Gentian	Followed timing restrictions/cons. Experts		D. Nikolai	2001	Yes	Calumet
Killsnake Wildlife Area			Yellow Rail	Followed timing restrictions	x	D. Nikolai	2001	Yes	Calumet

Site Name	Management Activity	Total Acres Impacted	Species Present	Guidelines Followed By:	Survey conducted?	Manager	Year	Followed IT Guidelines	County
Lulu Lake SNA	Burn	100	Kitten Tails			M. Zine	2001	Yes	Walworth
Lulu Lake SNA			Swamp Metalmark	Not seen since late 1970's, survey's done in 1990's		M. Zine	2001	Yes	Walworth
Lulu Lake SNA			Blanding's Turtle	Shoreline surveys done before burn		M. Zine	2001	Yes	Walworth
Lulu Lake SNA/Muckwonago Riv.	Burn	335	Blanding's Turtle	Rescue survey not practical site too large. Burned less than 25% of total available habitat		TNC	2001	No	Walworth
Lulu Lake SNA/Muckwonago Riv.			Swamp Metalmark	Burned < 50% of available wetland/fen habitat		TNC	2001	No	Walworth
Lulu Lake SNA/Muckwonago Riv.			Yellow Rail	Followed timing restrictions(before May 20 & after July 25)		TNC	2001	Yes	Walworth
Muralt Bluff Prairie SNA	Burn	62	Hill's Thistle	Followed timing restrictions		M. Zine	2001	Yes	Green
Muralt Bluff Prairie SNA			Yellow Giant Hyssop	Followed timing restrictions		M. Zine	2001	Yes	Green
Muralt Bluff Prairie SNA			Kitten Tails	Followed timing restrictions		M. Zine	2001	Yes	Green
Muralt Bluff Prairie SNA			Fritillary Butterfly	Followed timing and area restrictions		M. Zine	2001	Yes	Green
Muralt Bluff Prairie SNA			Silphium borer moth	Followed timing and area restrictions		M. Zine	2001	Yes	Green
Olson Oak Woods SNA	Burn/Cut Brush	166	Purple Milkweed	Followed timing restrictions. Brush cut when plants were dormant.		M. Zine	2001	Yes	Dane
Page Creek	Burn/Tree Removal	90	Karner Blue	Followed HCP guidelines	x	TNC	2001	Yes	Marquette
Page Creek Marsh SNA			Yellow Rail	Followed timing restrictions(before May 20 & after July 25)		TNC	2001	Yes	Marquette
Pine Island Wildlife Area	Burn/Herbicide	120	Fritillary butterfly	Surveys conducted; followed timing and area restrictions	x	P. Kaiser	2001	Yes	Columbia
Quincy Bluff SNA	Burn/Tree Removal	200	Karner Blue	Followed HCP guidelines	x	TNC	2001	Yes	Adams
Quincy Bluff SNA			Wood Turtle	Followed 'No Monitoring' Guidelines (no wetland)		TNC	2001	Yes	Adams
Quincy Bluff SNA			Yellow Rail	Followed timing restrictions(before May 20 & after July 25)		TNC	2001	Yes	Adams
Rock River SNA	Burn/Cut Brush	35	Hairy Wild Petunia	Followed timing and area restrictions		M. Zine	2001	Yes	Rock
Rock River SNA			Hill's Thistle	Followed timing and area restrictions		M. Zine	2001	Yes	Rock
Rock River SNA			Pale Purple Coneflower	Followed timing and area restrictions		M. Zine	2001	Yes	Rock
Rock River SNA			Round St. John's Wart	Followed timing and area restrictions		M. Zine	2001	Yes	Rock
Rock River SNA			Prairie Bush Clover	Followed timing and area restrictions		M. Zine	2001	Yes	Rock
Rock River SNA			Yellow Giant Hyssop	Followed timing and area restrictions		M. Zine	2001	Yes	Rock
Rocky Run SNA	Burn	54	Ornate Box Turtle	Followed timing/temp restrictions; Burned when temps < 50 deg. F.		M. Zine	2001	Yes	Columbia

Site Name	Management Activity	Total Acres Impacted	Species Present	Guidelines Followed By:	Survey conducted?	Manager	Year	Followed IT Guidelines	County
			Western Slender Glass Lizard	Followed timing restrictions; burned prior to April 15		M. Zine	2001	Yes	Columbia
			Wooly Milkweed	Followed timing restrictions		M. Zine	2001	Yes	Columbia
			Hill's Thistle	Followed timing restrictions		M. Zine	2001	Yes	Columbia
			Brittle Prickly Pear	Followed timing restrictions		M. Zine	2001	Yes	Columbia
Spring Green Prairie SNA	Burn	40	Net-veined Leafhopper	Followed 'No Monitoring' Guidelines (burned under %)		TNC	2001	Yes	Sauk
Spring Green Prairie SNA			Ornate Box Turtle	Followed timing restrictions (late October (01) & March (02)		TNC	2001	Yes	Sauk
Waubesa Wetland SNA	Burn	487	Blanding's Turtle	Burned conducted when temp was below 50 degrees Farenheight		M. Zine	2001	Yes	Dane
Waubesa Wetland SNA	Burn	220	Blanding's Turtle	Rescue survey not practical site too large. Burned less than 25% of total available habitat		TNC	2001	No	Dane
	Acreage Totals								
	2000	3,331							
	2001	3,965							
		7,296							

Instructions: Any action the Department conducts, approves, or funds on public or private lands, including projects funded by the Fish and Wildlife Service's Federal Aid program, that may affect state or federal endangered resources is subject to endangered resources screening. Use this form or other documentation of Endangered Resources Review. Place in project file to document that screening was completed. For additional information, consult the ER Screening Guidance or contact the Endangered Resources Program.

Project Information

Reviewer Last Name	First	MI
Project Description – Activity / Management Objective (include date(s) conducted)		

Are proposed activities part of a project funded under Fish and Wildlife Service Federal Aid Program? ☐ No ☐ Yes

County	Township	Range	<input type="checkbox"/> E <input type="checkbox"/> W	Section(s)	DNR Property Name
N					

Waterbody Name	Describe Location (if applicable)
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Describe Vegetative Cover at Project Area and Surrounding Landscape (vegetative cover, habitat, etc.) and note what info this is based on (e.g., aerial photos, site visit - include date(s) of site visit)

Review Information

Endangered Resources Information Reviewed (e.g. NHI data, SEWRPC reports, inventory reports, experts consulted, etc.)

Extent of Area Screened (e.g. project area and surrounding sections, waterbodies, water systems, etc.)

Decisions Based On:

<input type="checkbox"/> Personal Knowledge of Site and Species	<input type="checkbox"/> Experts: _____
<input type="checkbox"/> Site Visit	<input type="checkbox"/> Other (specify): _____

Presence of Endangered Resources

Are Endangered Resources Present:

- | | |
|--|--|
| 1. Federally Protected Species or Critical Habitat? | 2. State-Listed Species? |
| <input type="checkbox"/> No <input type="checkbox"/> Yes | <input type="checkbox"/> No <input type="checkbox"/> Yes |

If you answered No to both, provide short narrative below. No further action needed – Documentation of conclusion should be kept in project file.

If you answered Yes to either, continue completing remainder of form.

Specify Species or Communities (list below or attach)

Federal Section 7 / Federal Aid Determination

What effect will the proposed activities have on federally listed / proposed / candidate species and designated / proposed critical habitat?

- ☐ will have **"no effect"** Appropriate when the proposed activities will not directly or indirectly affect the above. Place documentation of conclusion in file.
- ☐ may affect but **"not likely to adversely affect"** Appropriate when the proposed activities are not likely to directly or indirectly adversely impact or would be beneficial to above. Beneficial effects are positive effects without any adverse effects to individual animals (includes insects) and plants. Contact the Bureau of Endangered Resources so they can work with the FWS Federal Aid Office to obtain their concurrence on this determination.
- ☐ may affect and **"likely to adversely affect"** Appropriate when the proposed activities are likely to adversely impact the above. Contact the Bureau of Endangered Resources so they can work with the FWS Green Bay Field Office to initiate formal Section 7 consultation.

Provide Short Narrative Explaining Determination

State Endangered Resources Determination

Will the proposed activities result in the Take of state listed species that are present or likely present in the project area?

- ☐ No – Provide short narrative explaining determination (unsuitable habitat, measures to avoid take, etc.).
No further action needed – Place documentation in project file.
- ☐ Yes – Incidental take authorization is likely. Contact the Incidental Take Consultation Specialist at BER to initiate the formal consultation process for the take of a listed species.

Grassland and Savanna Management Determination

If the objective of the proposed activities is to maintain or improve grassland or savanna habitat, broad taking coverage may be authorized through the Grassland/Savanna Management Taking Authorization. The listed species must be covered by the Authorization and the Conditions of the Authorization must be followed. See the Grassland/Savanna documentation for Conditions, grassland/savanna definitions, approved activities, and management protocols.

For grassland/savanna management activities, were the management protocols for the listed species followed?

- ☐ Yes – Describe how:
- ☐ No – Briefly describe the alternative to the protocol that was followed (include experts consulted):

Were Presence / Absence Surveys Conducted?

☐ Yes ☐ No

Estimated Project Acreage Covered by Authorization

Optional Grassland/Savanna Documentation: Describe Special Concern species and/or Natural Communities present, and measures to minimize or avoid impacts:

Reviewer Certification

I hereby certify that the above review documentation is true and correct to the best of my knowledge.

Signature of Project Reviewer

Date Signed